(d) if so, what are the targets for installation of such mobile telephones;

(e) whether these systems are to be imported or manufactured indigenously and what is the foreign exchange component thereof; and

(f) if so, what are the details thereof?

THE MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) Yes, Sir.

(b) Yes, Sir.

(c) Cellular Mobile Radio Telephone System is one of the technologies that can be used for providing telephone in the rural areas. The type of system to he used for providing telephone in rural areas will be based on techno-economic studies.

(d) Does not arise in view of (c) above.

(e) At present these systems are not manufactured in the country. Major portion of the equipment can be made in India if it is found that this technology can be used in a large scale.

(f) Does not arise in view of (e) above.

ISDN Technology by C-DOT

3413. SHRI NATHA SINGH:

SHRI PRITHIBI MAJHI;

Will the Minister of COMMUNICATIONS be pleased to state;

(a) whether C-DOT is developing Integrated Service Digital Network (ISDN.);

(b) if so, for what purpose the system will be utilised;

(c) whether it will be effective in providing mobile Or cellular radio phone system in the rural areas;

(d) by when the first mobile tele phone set would be available to the public;

(e) if so, what will cost to the subscriber and what will be the foreign exchange component; and

(f) by when at least 10 per cent of the country's villages are expected to be covered by these rural mobile phones?

THE MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) Yes, Sir.

(b) The purpose of development is to facilitate future introduction of Telematic Services like Data, Teletex, Videotex etc.

(c) Provision of Mobile or Cellular Radio system is not related to development of ISDN. At present C-DOT is not developing any mobile radio system for rural areas.

(d) to (f) Do not arise in view of (c).

3414. *[TransfeK-ed to the* 24th March, 1988]

Cost of Car Telephones

3415. SHRI ROSHAN LAL; Will the Minister of COMMUNICATIONS be pleased to state:

(a) whether Government's atten tion has been drawn to the news item in the "Times of India' dated the 10th February, 1988 regarding cost of Car Telephones;

(b) if so, whether it is a fact that each Car Telephone would mean an expenditure of Rs. one lakh; and

(c) whether such cost will impose resource constraints on Government in introducing mobile telephone system in the country?

THE MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) Yes, Sir.

(b) The cost per telephone depends on the size of the network. It will vary between Rs. 50, 000 per line to Rs. 1 lakh per line depending upon the size of the system.

; c) No, Sir. This wll be taken care of with proposed tariff.

Linking of Villages to the National Telephone Network

3416. SHRI ROSHAN LAL: Will the Minister of COMMUNICATIONS be pleased to state;

(a) how many villages inthe country have been linked to the National Telephone Network till 31st January, 1988;

(b) how many more villages are expected to be linked during the current plan;

(c) what is the estimated average co. st in rupees and foreign exchange for connecting each village; including cost of Copper cables to be provided; and

(d) what technical options are available to Government in order to minimise the costs?

THE MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) Presently the Department provides telephone facility in rural areas not on village basis, but on hexagonal bs sis. The country has been divided into haxagons of 5 Km sides each. Each hexagon covers an area of about 65 sq. km. Telephone facility is provided on fully subsidised basis at the principal village in each hexagon. Out of 50280 inhabited hexagons in the country, 26457 have been provided with telecom facility a_s on 31-1-1988. The number of villages covered will be much more than this number. All these villages provided with the telecom facility are linked to the National Telephone Network.

(b) More than 4800 hexagons are expected to be provided with telecom facility during the remaining period of the current plan.

(c) Average cost for providing a Long Distanc Public Telephone in a village works out to about Rs. 1. 6 lakhs.

(d) Technical options under consideration for minimising the costs are:

(i) Line sharing system.

(ii) Multi access rural radio system.

(iii) Cellular Radio Telephone system.

Production of Biogas

3417. SHRI SHANKER SINH VAGHELA; Will the Minister of ENERGY be pleased to state:

(a) whether any State-wise evaluation of biogas production has been conducted; if so, what are the details thereof;

(b) whether it is a fact that biogas is going waste as per study conducted in Goa as reported in the "Times of India' dated 26th October, 1987 and if so, what corrective steps have been taken;

(c) what has been th_e total investment on production of biogas so far; and

(d) bow many plants have been installed, State-wise till 31st January, 1988 and how many of these are ac tually functioning at present?

THE MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) State-wise evaluation survey studies on performance of family type biogas plants were conducted in